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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/075,159	02	/14/2002	Tomokuni Wauke	9281-4276	6899	
757	7590	08/04/2003				
		LSON & LIONE		EXAMINER		
P.O. BOX 10 CHICAGO,		MOHANDE	MOHANDESI, IRAJ A			
				ART UNIT	PAPER NUMBER	
				2834		
				DATE MAILED: 08/04/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner	•	Applicant(s)	Application No.		
Iraj A Mohandesi The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 27 June 2003. 2a) This action is FINAL. 2b) This action is non-final. 3) Responsive to communication for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims			10/075,159	Office Action Summers	
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· <u> </u>				accordance with the practice under	.—
1/23 Claim(c) - Sto area - Island politically in the appropriate			eation.		<u> </u>
4a) Of the above claim(s) 7 is/are withdrawn from consideration.				, , , , , , , , , , , , , , , ,	•
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-6,8,9</u> is/are rejected.					
7) Claim(s) is/are objected to.					·
8) Claim(s) are subject to restriction and/or election requirement.			election requirement.		· —
Application Papers			·		• —
9) The specification is objected to by the Examiner.				cation is objected to by the Examine	9)∐ Th
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.		Examiner.	ed or b) objected to by the E	g(s) filed on is/are: a)□ acce	10)[] Th
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	85(a).	e. See 37 CFR 1.85(a)	drawing(s) be held in abeyance	may not request that any objection to th	
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.	xaminer.	pproved by the Exami	s: a)□ approved b)□ disap	ed drawing correction filed on	11) 🗌 Th
If approved, corrected drawings are required in reply to this Office action.				•	
12) The oath or declaration is objected to by the Examiner.			miner.	declaration is objected to by the Ex	12)∐ Th
Priority under 35 U.S.C. §§ 119 and 120				.S.C. §§ 119 and 120	riority un
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		19(a)-(d) or (f).	priority under 35 U.S.C. § 11	dgment is made of a claim for foreig	13)⊠ A
a)⊠ All b)□ Some * c)□ None of:] Some * c)☐ None of:	a)⊠
1.☑ Certified copies of the priority documents have been received.			nave been received.	ified copies of the priority document	1
2. Certified copies of the priority documents have been received in Application No	<u> </u>	ication No	nave been received in Applic	ified copies of the priority document	2
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 	tional Stage		au (PCT Rule 17.2(a)).	application from the International Bu	
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).	sional application)		•		
a) The translation of the foreign language provisional application has been received.	, ,	received.	sional application has been	anslation of the foreign language pro	_a)[
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.		120 and/or 121.	priority under 35 U.S.C. §§	gment is made of a claim for domest	
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:			5) Notice of Inform	son's Patent Drawing Review (PTO-948)	☐ Notice of

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-5,8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pijanowski US patent 6,247,906 and in view of Kimura US patent 6,462,451

 And skill in the art.

Pijanowski,906 discloses a motor comprising:

a rotor having plural magnetic poles (Fig. 9A) disposed in a circumferential shape and a stator including a stator (500, Fig.9A) core having plural magnetic pole teeth that are outside a circumference of the rotor and face the rotor, a coil (830,Fig 9A) being wound around each of the magnetic pole teeth (see Fig. 9A) wherein the stator is provided so that a central angle of the rotor with respect to the stator is in a range within 180 degrees (see Fig. 9A).

However **Pijanowski'906** fails to teach a magnetic pole teeth are set so that a first angle defined by extensions of the centerlines of two adjacent magnetic pole teeth is smaller than a second angle.

Kimura'451 discloses a permanent magnet rotating electric machine having a magnetic pole teeth are set so that a first angle defined by extensions of the centerlines of two

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adjacent magnetic pole teeth is smaller than a second angle (se Fig.2) for the purpose of the distortion factor of the wave form.

Therefor it would have been obvious to one having skill in the art at the time the invention was made to combine Pijanowski,906 motor with a magnetic pole teeth that are set so that a first angle defined by extensions of the centerlines of two adjacent magnetic pole teeth is smaller than a second angle as taught by Kimura'451 for the purpose of the distortion factor of the wave form.

With regards to claim 6 it would have been obvious to one having skill in the art at the time the invention was made form the extensions of adjacent pole teeth 15 degrees and have six pole teeth, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art In re Boesch, 617 F.2d 272,205 USPPQ 215 (CCPA 1980).

Response to Arguments

3. Applicant's arguments with respect to claims 1-6,8,9 have been considered but are moot in view of the new ground(s) of rejection.

Communication

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iraj A Mohandesi whose telephone number is (703)305-3242. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1371. The fax phone numbers Application/Control Number: 10/075,159 Page 4

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for the organization where this application or proceeding is assigned are (703)872-9314 for regular communications and (703)872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)306-0377.

IM July 31, 2003

Phomas M. Conglierty